



COMMONWEALTH of VIRGINIA

DEPARTMENT OF FORENSIC SCIENCE

CENTRAL LABORATORY
A Nationally Accredited Laboratory

700 NORTH 5TH STREET
RICHMOND, VIRGINIA 23219
(804) 786-6971

CERTIFICATE OF INSTRUMENT ACCURACY

INSTRUMENT: Intox EC/IR II
SERIAL NUMBER: 010416
CERTIFICATION DATE: September 25, 2013
DATE RECERTIFICATION DUE: March 24, 2014

The above listed instrument was found to meet all requirements for accuracy and performance established by the Department of Forensic Science. This certification is valid from the above listed certification date until the above listed date for recertification.

Melissa Kennedy

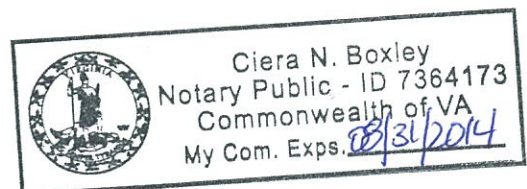
Program Manager, Calibration & Training

CITY OF RICHMOND
COMMONWEALTH OF VIRGINIA

The foregoing was acknowledged before me this 7th day of October, 2013 by Melissa Kennedy

Ciera N. Boxley, Notary Public

My commission expires: August 31, 2014



Department of Forensic Science
Breath Alcohol Section
Instrument Maintenance History
1/1/1990 To 9/26/2013

DBH

WJK

Instrument Serial Number: 010416	As of 26-Sep-13
---	------------------------

Maintenance	Certification	Technician	
Date	Date	Initials	Remarks
25-Sep-13	25-Sep-13	DBH (21250)	REPLACED PRINTER RIBBON. FIRMWARE/SOFTWARE UPGRADE. CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
23-Apr-13	23-Apr-13	DBH (21250)	CERTIFIED.
14-Nov-12	14-Nov-12	DBH (21250)	FIRMWARE/SOFTWARE UPGRADE, CALIBRATED AND CERTIFIED. REPLACED DRY GAS STANDARD.
05-Jun-12	05-Jun-12	TLN (25387)	CERTIFIED.
10-May-12	10-May-12	SED (24178)	CERTIFIED.
09-Apr-12	09-Apr-12	TLN (25387)	REALIGNED PURGE FAN. CALIBRATED AND CERTIFIED.
21-Sep-11	21-Sep-11	SED (24178)	REPLACED DRY GAS STANDARD, CERTIFIED.
11-Apr-11	11-Apr-11	RJP (22428)	CERTIFIED.
27-Oct-10	27-Oct-10	RJP (22428)	REPLACED DRY GAS STANDARD. CERTIFIED.
05-May-10	05-May-10	RJP (22428)	CERTIFIED
13-Nov-09	13-Nov-09	RJP (22428)	CERTIFIED
06-Nov-09	06-Nov-09	SED (24178)	REPLACED TANK TOP LID, CERTIFIED.
07-Aug-09	09-Apr-09	RJP (22428)	REPLACED PRINTER.
09-Apr-09	09-Apr-09	RJP (22428)	FIRMWARE/SOFTWARE UPGRADE. CERTIFIED.
20-Nov-08	20-Nov-08	HMS (18910)	CERTIFIED.
19-Nov-08	19-Nov-08	NMJ (22392)	CALIBRATED, CERTIFIED AND ACCEPTED.

DBH
NDR

INTOX EC/IR II Quality Assurance Worksheet

Instrument Serial Number 010416 Worksheet Start Date 9/25/2013

Location Chesapeake PD 3rd

Address 949 N George Washington Hwy Chesapeake VA 23323

DFS Technician Donald Hall License No. 21250

☐ Laboratory ☒ On-Site

Site Specifications

Yes No

1 Secured Environment:

Location must not be accessible to the general public.

☒ ☐

2 Environment free from contaminants

☒ ☐

3 Dedicated telephone line:

The phone line should be used solely by the instrument.

☒ ☐

4 Adequate Ventilation:

Enough space must be provided for the instrument and the printer to allow for adequate ventilation.

☒ ☐

5 Stable temperature controls:

The instrument should not be exposed to direct sources of temperature variation.

☒ ☐

6 115VAC power source:

Whenever possible instrument power circuit should not be shared with refrigerators, copy machines or other high amperage devices.

☒ ☐

7 Room Condition:

The site should be free of excessive moisture, heat and dust.

☒ ☐

Old serial no.	New serial no.	Supplies	
E-Seek		Mouthpieces	
Keyboard		Certificates of Analysis	100
Printer		Operator Worksheet	50
UPS		Other:	

Maintenance (if any)

Replaced printer ribbon. Firmware/software upgrade.

Comments (if any)

Instrument Serial Number 010416

Certification Date 9/25/2013

Instrument Barometer (mm HG) 760

Reference Barometer (mm HG) 762

Reference Barometer(RB)Serial # 009110

RB Calibration Due 5/30/2014

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.248
0.250	0.250	0.242	0.257	Sample 2	0.248
Precision		sample min	sample max	Sample 3	0.247
0.001		0.247	0.248		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.149
0.150	0.150	0.145	0.154	Sample 2	0.149
Precision		sample min	sample max	Sample 3	0.149
0		0.149	0.149		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.080
0.080	0.080	0.077	0.083	Sample 2	0.080
Precision		sample min	sample max	Sample 3	0.080
0		0.080	0.080		

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.019
0.020	0.020	0.017	0.023	Sample 2	0.019
Precision		sample min	sample max	Sample 3	0.019
0		0.019	0.019		

all measurements are in g/210L

Estimation of Uncertainty of Measurement and traceability records are located within the Breath Alcohol Section

☒ Calibrated☒ Certified☒ Replaced dry gas standard (+O-ring)

Dry gas standard Lot No. (with tank no.)

AG320502-21

☒ Measurement Assurance Check☒ Run a Breath Test (Instrument Test)

(successful completion denotes satisfactory condition of the item)

Standard (sea level)	PA Target	minimum	maximum	Sample 1	0.100
0.100	0.100	0.097	0.103	Sample 2	0.100
Precision		sample min	sample max	Sample 3	0.100
0		0.100	0.100		

DFS Technician

Donald B Hall

Date

9/26/13

Issuing Analyst

Melissa Kennedy

Date

10/3/13

Intox EC/IR II QA Worksheet

Issued by Calibration and Training Program Manager

Issue Date: 4-March-2013

DFS Document 250-F113

Revision 6

Page 2 of 2




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
---	-----------------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY HALL, DONALD, B		AGENCY DFS Central Lab
DFS LICENSE NUMBER 21250	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 09/25/2013
TEST EQUIPMENT NUMBER 010416		

RESULTS: TIME SAMPLE TAKEN 11:05 EDT
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____
SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____
OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 26 Sep 2013 at 08:49

DBH
Wsk

Test Results

Instrument Serial Number 010416

Test # 001220 Subject Test

Test Location 1 Department of
Test Date 25 Sep 2013

Test Location 2 Forensic Science
Test Time 10:58
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name HALL
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B
License Number 21250

Card Serial Number 121250

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 25 Sep 2013 End Time 11:06

Result Time 11:05

Result Date 25 Sep 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 10:59

Data Type BLK

Sample Value 0.000

Sample Time 10:59

Data Type CHK

Sample Value 0.102

Sample Time 11:00

Data Type BLK

Sample Value 0.000

Sample Time 11:02

Data Type SUBJ

Sample Value 0.000

Sample Time 11:03

Data Type BLK

Sample Value 0.000

Sample Time 11:04

Data Type SUBJ

Sample Value 0.000

Sample Time 11:05

Data Type BLK

Sample Value 0.000

Sample Time 11:06

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG217702-24

Standard Expiration Date 06/25/2014

Tank Pressure 561

Barometric Pressure 760 mmHg

Blow Sample Number 1 Blow Duration 3.96 sec

Blow Volume 1952 cc End-of-Blow Time 11:03

Blow Sample Number 2 Blow Duration 3.85 sec

Blow Volume 2001 cc End-of-Blow Time 11:05

Tamper Evident Stamp 9f080d9c

Test Status Code 0

Test Status Success



COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE


REPRINTED
DBH 9/25/13

hsk

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
--------------------------------------	----------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY HALL, DONALD, B		AGENCY DFS Central Lab
DFS LICENSE NUMBER 21250	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 09/25/2013
TEST EQUIPMENT NUMBER 010416		

RESULTS: TIME SAMPLE TAKEN 11:05 EDT
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:

I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20 _____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____ OPERATOR'S SIGNATURE

Intox EC/IR-II: Accuracy Check

WHL

Department of Forensic Science

Serial Number: 010416 Test Number: 1221

Test Date: 09/25/2013 Test Time: 11:08 EDT

Dry Gas Target: 0.100

Lot Number: AG217702-24 Exp Date: 06/25/2014

Tank Pressure: 556 psi Barometric Pressure: 760 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	11:09
CHK	0.101	11:10
BLK	0.000	11:11
CHK	0.101	11:12
BLK	0.000	11:13
CHK	0.101	11:14

Test Status: Success

Calibration CRC: 589CC291

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010416 Test Number: 1222

Test Date: 09/25/2013 Test Time: 11:19 EDT

Dry Gas Target: 0.300

Lot Number: AG322702-04 Exp Date: 08/15/2015

Tank Pressure: 286 psi Barometric Pressure: 760 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	11:20
CHK	0.304	11:21
BLK	0.000	11:22
CHK	0.303	11:23
BLK	0.000	11:24
CHK	0.303	11:25

Test Status: Success

Calibration CRC: 589CC291

Intox EC/IR-II: Software Version

Department of Forensic Science

Serial Number: 010416

System Date: 09/25/2013

System Time: 11:51 EDT

Software Version: VS00333-K

Software CRC: 56745BCA

Firmware Version: VS00171-CL

Firmware CRC: 7107756B

DBH

WML

Intox EC/IR-II: Calibration

DBH

1/28/14

Department of Forensic Science

Serial Number: 010416 Test Number: 1223

Test Date: 09/25/2013 Test Time: 11:54 EDT

Dry Gas Target: 0.100

Lot Number: 0651210013-05 Exp Date: 04/01/2014

Tank Pressure: 404 psi Barometric Pressure: 760 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	11:54
CAL	0.100	11:55

Test Status: Success

Calibration CRC: F50C2EF1

DB H

NSL

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010416 Test Number: 1224
Test Date: 09/25/2013 Test Time: 11:59 EDT

Technician Initials: DBH

Dry Gas Target: 0.250

Lot Number: 2961225012-10 Exp Date: 11/01/2014

Tank Pressure: 227 psi Barometric Pressure: 760 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	11:59
BLK	0.000	12:00
CHK	0.248	12:01
BLK	0.000	12:02
CHK	0.248	12:03
BLK	0.000	12:04
CHK	0.247	12:05
BLK	0.000	12:07

Success

Standard Value (at sea level): 0.250 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010416 Test Number: 1225
Test Date: 09/25/2013 Test Time: 12:10 EDT

Technician Initials: DBH

Dry Gas Target: 0.150

Lot Number: 2951215012-03 Exp Date: 11/01/2014

Tank Pressure: 973 psi Barometric Pressure: 760 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:10
BLK	0.000	12:11
CHK	0.149	12:12
BLK	0.000	12:13
CHK	0.149	12:14
BLK	0.000	12:15
CHK	0.149	12:16
BLK	0.000	12:18

Success

Standard Value (at sea level): 0.150 g/210L

Certification Status: Continued

Intox EC/IR-II: Certification

Department of Forensic Science

Serial Number: 010416 Test Number: 1226
Test Date: 09/25/2013 Test Time: 12:20 EDT

Technician Initials: DBH

Dry Gas Target: 0.080

Lot Number: 0651208012-03 Exp Date: 04/01/2014

Tank Pressure: 193 psi Barometric Pressure: 759 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:21
BLK	0.000	12:21
CHK	0.080	12:22
BLK	0.000	12:24
CHK	0.080	12:24
BLK	0.000	12:26
CHK	0.080	12:27
BLK	0.000	12:28

Success

Standard Value (at sea level): 0.080 g/210L

Certification Status: Continued

DBH

Intox EC/IR-II: Certification

DBH

Department of Forensic Science

Serial Number: 010416 Test Number: 1227

Test Date: 09/25/2013 Test Time: 12:30 EDT

Technician Initials: DBH

Dry Gas Target: 0.020

Lot Number: 0651202011-05 Exp Date: 04/01/2014

Tank Pressure: 105 psi Barometric Pressure: 759 mmHg

System Check: Passed

Test	g/210L	Time
DIAG	Pass	12:30
BLK	0.000	12:31
CHK	0.019	12:32
BLK	0.000	12:33
CHK	0.019	12:34
BLK	0.000	12:35
CHK	0.019	12:36
BLK	0.000	12:37

Success

Standard Value (at sea level): 0.020 g/210L

Certification Status: Success

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010416 Test Number: 1228

Test Date: 09/25/2013 Test Time: 12:41 EDT

Dry Gas Target: 0.300

Lot Number: AG322702-04 Exp Date: 08/15/2015

Tank Pressure: 276 psi Barometric Pressure: 759 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	12:42
CHK	0.302	12:42
BLK	0.000	12:44
CHK	0.301	12:45
BLK	0.000	12:47
CHK	0.301	12:48

Test Status: Success

Calibration CRC: F50C2EF1

DBH

Intox EC/IR-II: Accuracy Check

Department of Forensic Science

Serial Number: 010416 Test Number: 1229

Test Date: 09/25/2013 Test Time: 12:51 EDT

Dry Gas Target: 0.100

Lot Number: AG320502-21 Exp Date: 07/24/2015

Tank Pressure: 1120 psi Barometric Pressure: 759 mmHg

System Check: Passed

Test	g/210L	Time
BLK	0.000	12:52
CHK	0.100	12:53
BLK	0.000	12:54
CHK	0.100	12:55
BLK	0.000	12:56
CHK	0.100	12:57

Test Status: Success

Calibration CRC: F50C2EF1

NSA




COMMONWEALTH OF VIRGINIA
DEPARTMENT OF FORENSIC SCIENCE

CERTIFICATE OF BLOOD ALCOHOL ANALYSIS
AS DETERMINED BY A CHEMICAL TEST OF THE ACCUSED'S BREATH

NAME OF ACCUSED INSTRUMENT, TEST,	NAME OF COURT DFS
---	-----------------------------

BREATH ANALYSIS

SAMPLE EXAMINED AND TEST CONDUCTED BY HALL, DONALD, B		AGENCY DFS Central Lab
DFS LICENSE NUMBER 21250	LICENSE EXPIRES 10/01/2014	DATE TEST CONDUCTED 09/25/2013
TEST EQUIPMENT NUMBER 010416		

RESULTS: TIME SAMPLE TAKEN 13:06 EDT
SAMPLE'S ALCOHOL CONTENT 0.00 GRAMS PER 210 LITERS OF BREATH

ATTEST:
I CERTIFY THAT THE ABOVE IS AN ACCURATE RECORD OF THE TEST CONDUCTED; THAT THE TEST WAS CONDUCTED WITH THE TYPE OF EQUIPMENT AND IN ACCORDANCE WITH THE METHODS APPROVED BY THE DEPARTMENT OF FORENSIC SCIENCE; THAT THE TEST WAS CONDUCTED IN ACCORDANCE WITH THE DEPARTMENT'S SPECIFICATIONS; THAT PRIOR TO ADMINISTRATION OF THE TEST THE ACCUSED WAS ADVISED OF HIS RIGHT TO OBSERVE THE PROCESS AND SEE THE BLOOD ALCOHOL READING ON THE EQUIPMENT USED TO PERFORM THE BREATH TEST, AND THAT I POSSESS A VALID LICENSE TO CONDUCT SUCH TEST, GIVEN UNDER MY HAND THIS _____ DAY OF _____, 20_____.

BREATH TEST OPERATOR

☐ I HAVE RECEIVED A COPY OF THIS CERTIFICATE OF ANALYSIS _____ SUBJECT'S SIGNATURE

☐ SUBJECT REFUSED TO SIGN FOR COPY OF CERTIFICATE OF ANALYSIS _____ OPERATOR'S SIGNATURE



IntoxNet MIS Report

Report Generated 26 Sep 2013 at 08:48

DBH

WHL

Test Results

Instrument Serial Number 010416

Test # 001230 Subject Test

Test Location 1 Department of
Test Date 25 Sep 2013

Test Location 2 Forensic Science
Test Time 13:00
Remote/Local Local

Test Location 3
System Check Passed

Operator's Last Name HALL
Agency DFS Central Lab

Operator's First Name DONALD

Operator's Middle Initial B

License Number 21250

Card Serial Number 121250

Effective Date 10/01/2012

Expiration Date 10/01/2014

Subject's Last Name INSTRUMENT

Subject's First Name TEST

Subject's Middle Initial

Subject's Date of Birth 00/00/0000

Subject's Sex Male

Driver's License Number

Driver's License Expiration 00/00/0000

Driver's License State

Court Name DFS

End Date 25 Sep 2013 End Time 13:07

Result Time 13:06

Result Date 25 Sep 2013 Result 0.00

Data Type DIAG

Sample Value Pass

Sample Time 13:00

Data Type BLK

Sample Value 0.000

Sample Time 13:01

Data Type CHK

Sample Value 0.100

Sample Time 13:01

Data Type BLK

Sample Value 0.000

Sample Time 13:03

Data Type SUBJ

Sample Value 0.000

Sample Time 13:04

Data Type BLK

Sample Value 0.000

Sample Time 13:05

Data Type SUBJ

Sample Value 0.000

Sample Time 13:06

Data Type BLK

Sample Value 0.000

Sample Time 13:07

Standard Type Dry Gas Std

Standard Value 0.100

Standard Lot Number AG320502-21

Standard Expiration Date 07/24/2015

Tank Pressure 1120

Barometric Pressure 759 mmHg

Blow Sample Number 1 Blow Duration 3.50 sec

Blow Volume 1787 cc End-of-Blow Time 13:04

Blow Sample Number 2 Blow Duration 3.69 sec

Blow Volume 1876 cc End-of-Blow Time 13:06

Tamper Evident Stamp 8cd1c420

Test Status Code 0

Test Status Success